

*Population Trends
and Public Policy*

**Immigration and its Impact
on U.S. Society**

by Leon F. Bouvier



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Immigration to the United States has reached levels not attained since early in this century. If both legal and illegal entries are included, close to half of all growth may be attributable to this demographic variable. Perhaps 1.25 million people immigrated in 1980 alone—800,000 of those legally. Clearly, immigration is worthy of serious consideration by policymakers and others concerned with the U.S. population of the future.

The first report in this series dealt with the numerical impact of immigration on the size of the U.S. population. It noted that "in determining future population size, the effect of fertility changes is stronger than that of migration changes."¹ If there is an increase of just 10 percent in the total fertility rate from 1.8 to 2.0 births per woman, for example, this will add 7 million people to the U.S. population in 20 years, 24 million in 50 years, and 50 million in 100 years. On the other hand, a 50 percent increase in net international migration* (from 500,000 to 750,000 for example)—holding fertility constant at 1.8—increases the size of the population by only 6 million in 20 years, 17 million in 50 years and 33 million in 100 years.

However, even if the level of immigration might be relatively small, it would represent a large *percentage* of the population growth that is taking place when fertility is low. For example, net migration of 500,000 per year represents 26 percent of all growth in the 1980 decade if the total fertility rate (TFR)** remains 1.8. "By the turn of the century

about half of all growth will be attributable to net international migration and by 2020-2030, all growth will come from net international migration as births decline to the point that deaths exceed them."²

In sum, fertility and migration must be constantly monitored because both independently contribute to the future size of the U.S. population.

In this report, the impact of immigration on the ethnic composition, regional distribution, and age composition of the U.S. population will be analyzed. This will serve as a base upon which to study the demographic impact of immigration on school enrollment, the labor force, and the elderly population.

*International migration terminology is sometimes unclear. Net international migration refers to the difference between immigration and emigration. In the following report, all migration is assumed to be international, unless otherwise noted, and legal and illegal moves are grouped together.

**In the following report, the total fertility rate (TFR) is used to indicate levels of fertility. The TFR indicates how many live births a woman would have if throughout her reproductive years she bore children at the rates which women of all ages actually did bear children in a specific year.

Immigration and its Impact on U.S. Society, by Leon F. Bouvier, is the second report in the new series of occasional papers, *Population Trends and Public Policy*, published by the Population Reference Bureau, Inc. This series is devoted to the discussion of timely demographic or population issues that are of particular concern to the policymaker.

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Immigration and its Impact on U.S. Society

Making assumptions about future immigration patterns is a tenuous business. Will the Congress institute major changes in U.S. immigration law, perhaps as a result of the recommendations of the Select Commission on Immigration and Refugee Policy or the President's Interdepartmental Task Force? Will the present system based on six preference categories remain relatively intact? Major legislative changes could affect both size and type of immigration. But regardless of policy direction, it seems safe to say that the U.S. will not return to a national quota system.

There are three types of legal immigrants: those who fall within the preference system; those exempt from numerical limitation; and refugees. The regulations are such that relatives of recent immigrants, citizens and resident aliens alike, are more likely to benefit from the present preference system than relatives of earlier immigrants. Inhabitants of European countries find it increasingly difficult to qualify—except under occupational preferences—simply because the number of U.S. residents of European extraction has fallen over the last few decades. Inhabitants of African countries find it almost impossible to immigrate due to the paucity of "sponsors" already residing in the U.S. In the two most widely used categories, 1979 figures show that 75 percent of all second preference entrants (spouses and unmarried sons and daughters of permanent resident aliens) and 67 percent of fifth preference entrants (brothers and sisters of U.S. citizens) came from Latin America and the Caribbean or Asia.

If the 1965 Immigration and Nationality Act amendments remain in effect, the number of immigrants entering the country exempt from numerical limitation will undoubtedly increase in future years—especially if overall immigration is relatively large. The law specifies that all immediate relatives of U.S. citizens (parents, spouses, and children) are admissible without limits on their num-

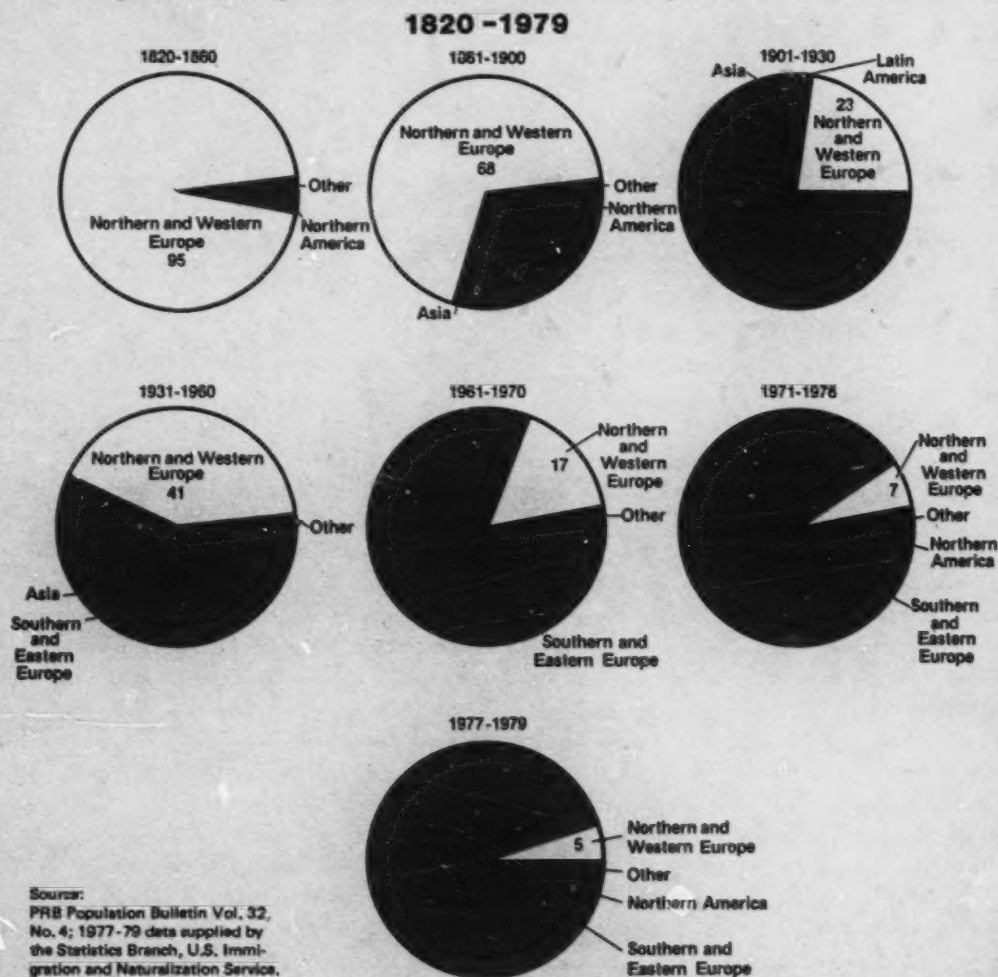
bers. For the 1969-1976 period, the number entering under this category averaged only 88,000 per year. In 1977, 111,555 persons entered (excluding Cuban immigrants). By 1979 the number had risen to 149,000.

Ethnic Composition

In recent years major changes have occurred in the proportional distribution of immigrants to the United States from different countries and regions of the world. The 19th and early 20th century pattern of immigration is familiar, in particular the changeover from predominantly Northwest European immigrants to those originating from Southeast Europe. The 1965 amendments to the Immigration and Nationality Act resulted in further changes in countries of origin. As Figure 1 shows, emphasis shifted from Northern and Western Europe to Southern and Eastern Europe, then to Latin America, and more recently to Asia. In 1977-1979, less than 6 percent of immigrants to the U.S. came from Northern and Western Europe. This is in stark contrast to the 1931-1960 period when 41 percent came from that region and only 20 percent came from Latin America, the Caribbean, Asia, and the Pacific Islands combined.

As people immigrate to the U.S. and as these immigrants become citizens, their immediate relatives, in turn, become eligible to join them in the United States if they so desire—all can enter with no numerical limitation. Asians and Latin Americans will no doubt predominate among those who enter outside the numerical limits for the foreseeable future, given the large number of immediate relatives already in the U.S. from those regions. In 1978, 36 percent of those entering outside numeri-

Figure 1. Immigrants Admitted to the U.S. by Region of Birth



cal limits came from Asia, and 37 percent came from Latin America. Because Asians are more likely to opt for U.S. citizenship than Latin Americans, the proportion of Asians who attain sponsorship may well increase.

Refugees, numbering about 200,000 per year, now comprise a significant proportion of legal entrants. That level may well be maintained for the foreseeable future. While it is not possible to pin-

point future sources of refugee movements, it seems reasonable to suggest that most are likely to come from Southeast Asia and certain Caribbean and Latin American countries rather than from Western Europe. Perhaps African and Middle Eastern refugees will become more numerous and a small but steady refugee stream from Eastern Europe and the Soviet Union may continue. Nevertheless, the large majority will probably come

from Asia at least in the short run. The Office of the U.S. Coordinator for Refugee Affairs has allocated the following entry slots for fiscal year 1981: 168,000 for Indochina; 33,000 for the Soviet Union; 4,500 for Eastern Europe; 4,500 for the Near East; 4,000 for Latin America; and 3,000 for Africa.³

(Illegal immigration remains a thorny issue—simply because even rough estimates of the number of undocumented entries are not available. It is generally agreed that a substantial majority of illegal immigrants come from Mexico, Central America, and the Caribbean. Some entrants from Europe, Africa, and Asia do abuse their visa privileges, but the consensus is that at least half of all illegal immigrants are Mexicans and another large proportion come from the Dominican Republic, Haiti, Colombia, Jamaica, and El Salvador.)

Asia and Latin America should continue as dominant regions of origin in the future, insofar as that future can be "predicted." While there might be a tendency for legal entries from Asia to increase under certain preference categories, in general, the proportion of total immigrants originating in Latin America and the Caribbean may well experience the largest growth, in part because of illegal entries and in part due to the proximity of the area. For the purpose of this report, therefore, it is assumed that future net international migration to the U.S. will be subdivided into three categories as follows: Latin American/Caribbean (that is, all countries south of the Rio Grande including English, French, Dutch, Portuguese, as well as Spanish-speaking countries) 45 percent; Asian and Pacific Island countries 40 percent; all other countries 15 percent. (These proportions vary slightly from recent legal patterns.)

The future fertility behavior of immigrants, irrespective of region of origin, is assumed conservatively to be the same as that of the resident population of the U.S. Inter-marriage between ethnic groups is not considered in these assumptions. This may result in an under-estimate of the impact of immigration on the U.S. population. While there is no substantial evidence suggesting high levels of fertility among Asian immigrants to the U.S., there is such evidence for Latin Americans, especially for Mexicans. However, among this group recent

Review of Assumptions

The following is a review of the assumptions used for the projections in this report:

The ethnic composition of the future immigrant population will be 45 percent Latin American, 40 percent Asian, 15 percent other nationalities.

No intermarriage between ethnic groups is considered.

The fertility of all groups—immigrant and resident—is the same.

Emigration is proportionately the same for all groups.

The regional distribution of the future immigrant population will be the same as that noted for those entering the country legally in 1978.

Net internal migration between states is the same as noted between 1970-75 as calculated by the Census Bureau and extended only to the year 2000.

The age distribution of immigrants is assumed to be the same as that for legal immigrants who entered the U.S. in 1978. No attempt is made to take account of any differences in age composition between ethnic groups.

studies show fertility declining as education and length of stay in the U.S. increase.⁴ To be both "conservative" and "expedient" the assumption is that both immigrants and residents will exhibit the same fertility as well as mortality behavior.

Given these assumptions, and turning to findings from the earlier report in this series, "The Impact of Immigration on U.S. Population Size," the total future population of the U.S. attributable to immigration (that is, post-1980 immigrants and their descendants) is illustrated in Table 1, according to different fertility assumptions and net international migration to the U.S. of 500,000 persons annually. In 50 years, for example, if U.S. fertility remains at 1.8, of the 32,768,000 immigrants and their descendants in the population, 13,107,000 will be Asian, 14,746,000 Latin American, and 4,915,000 will have emigrated from other parts of the world.

TABLE 1

Number of Post-1980 Immigrants and Descendants in Total Population,
2000-2080, Assuming Annual Net International Migration of 500,000,*
By Total Fertility Rate and Region of Origin (In 1,000s)

Total Fertility Rate	Year								
	2000			2030			2080		
	Asian ¹	Latin American ²	Other ³	Asian	Latin American	Other	Asian	Latin American	Other
1.8	4,690	5,276	1,759	13,107	14,746	4,915	26,646	29,976	9,992
2.0	4,776	5,373	1,791	13,705	15,418	5,139	29,710	33,424	11,141
2.2	4,870	5,478	1,826	14,340	16,189	5,396	33,553	37,747	12,582

*The selection of 500,000 is for illustrative purposes only.

¹In this and the following tables, "Asian" includes persons from the continent of Asia and the Pacific Islands.

²"Latin American" includes persons from countries in all of the Americas except the U.S., Canada, and Greenland.

³"Other" refers to immigrants from the rest of the world, but mainly Europe and Canada.

Regional Distribution

The destination of immigrants to the U.S. often depends on the residence of relatives, friends, or members of the same ethnic group, and other factors. Cubans settle predominantly in Florida; Mexicans usually select Texas first; Dominicans choose New York; and Filipinos and Koreans are more likely to live in California than in any other state, although Korean immigrants are more dispersed than the Filipinos.

Two basic sources of data allow tentative estimates of the regional distribution of the immigrant population: the declaration of intended residence to the Immigration and Naturalization Service by new arrivals; and the U.S. Census which asks all respondents their place of birth and where they resided five years previously.* The census makes it possible to determine the proportion of foreign-born persons living abroad five years before each enumeration according to specific region and state of residence at census time. These two methods show a similar distribution of residence by state, as seen in Table 2. (The INS data indicate an especially high proportion of immigrants in the South

because they reflect an adjustment in the classification of previous Cuban entrants from refugee to immigrant status.)

For this report, it is assumed that the three major ethnic categories of immigrants will select their intended place of residence in the same proportion as did immigrants entering the country in 1978. For example, 31.5 percent of all Asians entering the U.S. in that year settled in California. If it is assumed that total net international migration for any specific year is 500,000, then 40 percent (or 200,000) of these persons would be Asians, of whom 63,000 (or 31.5 percent) would choose to live in California. To complete the example, 28 percent of Latin American immigrants would select California. Thus, of the 225,000 Latin American arrivals (45 percent of 500,000) 63,000 (by coincidence) would also settle in California. Of the 75,000 immigrants from other areas—mostly Europe, Canada, and Australia—about 14 percent (10,500) would go to California, following the patterns in 1978.

*The alien registration system, which gives some indication of current residence for those who file, is a third source of information.

TABLE 2
Percent Distribution of Immigrants by Regions and Selected States

	Residence According to 1970 Census	Intended Residence Declaration of New Arrivals, I.N.S. 1978
Regions		
Northeast	36.0	30.2
North Central	16.3	13.6
South	16.5	24.0
West	31.2	32.2
Selected States*		
California	24.1	24.7
Florida	2.0	6.6
Illinois	6.5	5.7
New York	18.0	17.1
Texas	5.2	7.9

*These are the five states having the largest number of immigrant entries in 1978.

Source: U.S. Bureau of the Census, "Illustrative Projections of State Population by Age, Race, and Sex, 1975 to 2000," *Current Population Reports*, No. 798, 1977, p. 25, Table A-7; Unpublished data, Immigration and Naturalization Service, 1980.

Table 3 indicates the distribution of immigrants in the three ethnic categories by region and selected state of residence. Asians are much more likely to live in the West than elsewhere; Latin Americans are more equally distributed, with the West being slightly more favored than the Northeast and the South. Other immigrants, mainly persons of European birth, are more apt to select the Northeast than any other region. The north central region is the least likely recipient of immigrants.

California is by far the favorite state of residence for Asians. Among Latin Americans, California ranks first with New York second, followed by Texas and Florida. Together these four states are the intended residence of three-quarters of all Latin American or Caribbean immigrants. Those coming from the rest of the world select New York first with California being almost as popular.

Under these assumptions, the western region will receive about 35 percent of all immigrants in future years; 29.5 percent will go to the Northeast; 29 percent to the South; and 12.5 percent to the north central region. California, followed by New York, will be the state attracting the most immigrants.

Beyond the annual flow of immigrants, it is also possible to project the future residence of post-1980 immigrants and their descendants. Assuming no major internal movements among immigrants, a total fertility rate of 1.8 equal to the U.S. rate for all ethnic groups, and annual net international migration of 500,000, the number of immigrants and their descendants residing in the United States would grow to 11,725,000 by the year 2000. As Table 1 indicated, Asians would number 4,690,000; 5,276,250 would be Latin Americans; and 1,758,750 "Others." Table 4 shows how post-1980 immigrants and their descendants would be divided among regions and selected states in future years, given different levels of fertility for the U.S. population as a whole. As noted in Table 3, California receives 31.5 percent of all Asian immigrants, 28.4 percent of all Latin Americans, and 13.8 percent of other immigrants. California's portion of the 11,725,000 immigrants and their descendants in the year 2000 amounts to 1,477,350 Asians, 1,498,500 Latin Americans, and 242,650 persons of other backgrounds. The state's total would be 3,218,500, or 27.4 percent of all post-1980 immi-

TABLE 3
Percent Distribution of Immigrant Groups by Regions and Selected States
Based on Intended Residence, 1978

Intended Residence	Region of Origin			Total
	Asian	Latin American	Other	
Regions				
Northeast	25.3	28.4	44.0	29.5
North Central	17.0	8.1	13.8	12.5
South	15.1	30.8	20.7	23.0
West	42.6	32.7	21.5	35.0
Selected States				
California	31.5	28.4	13.8	27.4
Florida	0.7	13.2	8.4	8.0
Illinois	7.7	6.1	4.1	6.5
New York	11.6	19.0	17.3	16.0
Texas	3.5	15.0	3.7	9.0

Source: Unpublished data, Immigration and Naturalization Service, 1980.

grants and their descendants in the U.S. population in the year 2000.

What will be the impact of these numbers? What proportion will post-1980 immigrants and their children comprise in the future U.S. population and in regional and state populations? Moving to the assumption that annual net migration will be 1 million (a figure that more closely resembles the current flow of immigrants including illegal entries) and given continued low fertility (TFR = 1.8), 8.8 percent of the population in 2000 would be post-1980 immigrants and their descendants. That proportion would increase over time to 21.1 percent in 2030, 29.2 percent in 2050, and 39.8 percent in 2080.⁵

⁵In making estimates of the proportion of post-1980 immigrants and their descendants in states and regions, internal migration must be considered as well as fertility and mortality. The U.S. Census Bureau has developed projections of the population by state and region to the year 2000. Such projections make assumptions about fertility, mortality, and both internal and international migration. However, international migration is not separable from the other variables. The Census Bureau's Series II-B assumes a continuation of the interstate migration pattern for the years 1970-75, and this assumption is used in this report.

Irrespective of its dimensions, or the country's future fertility patterns, immigration will have a vastly different impact on diverse parts of the country. Looking at the year 2000, assuming net migration of 1 million and a TFR of 1.8, the proportion of post-1980 immigrants and their descendants would be greater in the West than elsewhere, comprising 15 percent of the population in that region. On the other hand, little impact would be noted in the north central region. The impact on the Northeast, like the West, would be considerable as the proportion of post-1980 immigrants and their descendants climbs to 12.5, well above the national proportion of 8 percent. California would be particularly affected by immigration in future years; almost 21 percent of its population would be post-

The methodology used for this portion of the study involves determining the region or state population assuming no immigration as estimated by the Census Bureau for the year 2000, developing a comparable estimate for this report, and then adding the immigration that has been allocated to specific states and regions.

Projections beyond the turn of the century assume no further change in internal migration. That is to say, the distribution of the population by region and state remains unchanged from that noted for the hypothetical no-immigration population of 2000.

TABLE 4

Number of Post-1980 Immigrants and Descendants in Regions and Selected States,
By U.S. Total Fertility Rate, 2000-2080 (in 1,000s)
(Annual Net International Migration = 500,000)*

Residence	Year								
	2000			2030			2080		
	Latin Asian	American	Other	Latin Asian	American	Other	Latin Asian	American	Other
TFR 1.8									
Northeast	1,187	1,498	774	3,316	4,188	2,162	6,741	8,513	4,396
New York	544	1,002	304	1,520	2,802	850	3,091	5,695	1,729
North Central	797	427	243	2,228	1,194	678	4,530	2,428	1,379
Illinois	361	322	72	1,009	899	201	2,052	1,828	410
South	708	1,625	364	1,979	4,542	1,017	4,023	9,233	2,068
Florida	33	696	148	92	1,946	413	186	3,957	839
Texas	164	791	65	459	2,212	182	933	4,496	370
West	1,998	1,725	378	5,584	4,822	1,057	11,351	9,802	2,148
California	1,477	1,498	243	4,129	4,188	678	8,393	8,513	1,379
TFR 2.0									
Northeast	1,208	1,526	788	3,467	4,379	2,261	7,517	9,492	4,902
New York	554	1,021	310	1,589	2,929	889	3,446	6,351	1,927
North Central	812	435	247	2,330	1,249	709	5,051	2,707	1,537
Illinois	368	328	73	1,055	940	211	2,288	2,039	457
South	721	1,655	371	2,069	4,749	1,064	4,486	10,295	2,306
Florida	33	709	150	96	2,035	432	208	4,412	936
Texas	167	805	66	480	2,313	190	1,040	5,014	412
West	2,036	1,757	385	5,838	5,042	1,105	12,656	10,929	2,395
California	1,504	1,526	247	4,317	4,379	709	9,359	9,492	1,537
TFR 2.2									
Northeast	1,232	1,556	803	3,641	4,598	2,374	8,489	10,720	5,536
New York	565	1,041	316	1,665	3,076	933	3,892	7,172	2,177
North Central	828	444	252	2,446	1,311	745	5,704	3,057	1,736
Illinois	375	334	75	1,108	987	221	2,584	2,303	516
South	735	1,687	378	2,173	4,966	1,117	5,066	11,626	2,604
Florida	34	723	153	101	2,137	453	235	4,983	1,057
Texas	170	822	68	504	2,428	200	1,174	5,662	465
West	2,075	1,791	393	6,130	5,294	1,160	14,294	12,343	2,705
California	1,534	1,555	252	4,533	4,598	745	10,569	10,720	1,736

*Only the projection for net international migration of 500,000 is shown. To determine the number of persons in a particular ethnic group or in a particular region under other immigration assumptions, divide the specific annual immigration assumed by 500,000 and multiply the immigrant total shown in the Table by that factor.

1980 immigrants and their descendants in the year 2000. New York, too, would experience large increases in the proportion living there, which could reach 19 percent by the year 2000.

With continued low fertility, the proportion of post-1980 immigrants and their descendants would grow substantially over time. Assuming a TFR of 1.8 and 500,000 immigrants per year, Figure 2

TABLE 5
Projected Regional and Selected State Populations, 2000-2080,
And Percent Post-1980 Immigrants and Descendants by Total
Fertility Rate and Annual Net International Migration (in 1,000s)

Net Migration and Fertility	Year					
	2000		2030		2080	
	Total Popu- lation	Percent Attributable to Immigration	Total Popu- lation	Percent Attributable to Immigration	Total Popu- lation	Percent Attributable to Immigration
NORTHEAST						
500,000 Net Migration						
TFR 1.8	51,782	6.8	58,144	16.6	59,561	33.0
TFR 2.0	53,187	6.6	63,131	16.0	73,547	29.8
TFR 2.2	54,702	6.5	69,025	15.4	92,316	26.8
1,000,000 Net Migration						
TFR 1.8	55,245	12.5	67,810	28.5	79,212	49.3
TFR 2.0	56,686	12.4	73,238	27.6	95,458	45.9
TFR 2.2	58,232	12.3	79,638	26.6	117,061	42.3
NORTH CENTRAL						
500,000 Net Migration						
TFR 1.8	61,600	2.4	64,570	6.3	58,113	14.3
TFR 2.0	63,290	2.4	70,429	6.1	73,700	12.6
TFR 2.2	65,141	2.3	77,364	5.8	94,778	11.1
1,000,000 Net Migration						
TFR 1.8	63,080	4.6	68,666	11.9	66,440	25.1
TFR 2.0	64,782	4.6	74,712	11.5	82,985	22.4
TFR 2.2	66,581	4.6	81,861	11.0	105,263	19.9
SOUTH						
500,000 Net Migration						
TFR 1.8	91,220	3.0	96,412	7.8	88,489	17.3
TFR 2.0	93,680	2.9	105,090	7.5	111,750	15.3
TFR 2.2	96,388	2.9	115,363	7.2	143,172	13.5
1,000,000 Net Migration						
TFR 1.8	93,898	5.7	103,948	14.5	103,810	29.5
TFR 2.0	96,420	5.7	112,970	14.0	128,833	26.5
TFR 2.2	99,114	5.6	123,637	13.4	162,466	23.7
WEST						
500,000 Net Migration						
TFR 1.8	50,800	8.2	58,477	19.6	62,015	37.6
TFR 2.0	52,160	8.0	63,409	18.9	76,069	34.2
TFR 2.2	53,665	7.9	69,214	18.2	94,882	30.9
1,000,000 Net Migration						
TFR 1.8	54,904	14.9	69,947	32.8	85,330	54.6
TFR 2.0	56,338	14.8	75,401	31.8	102,066	50.9
TFR 2.2	57,843	14.7	81,826	30.8	124,248	47.3

TABLE 5 (Continued)

Net Migration and Fertility	Year					
	2000		2030		2080	
	Total Population	Percent Attributable to Immigration	Total Population	Percent Attributable to Immigration	Total Population	Percent Attributable to Immigration
NEW YORK						
500,000 Net Migration						
TFR 1.8	17,715	10.6	21,157	24.8	23,759	44.1
TFR 2.0	18,183	10.5	22,888	24.0	28,835	41.2
TFR 2.2	18,700	10.4	24,932	23.1	35,603	37.7
1,000,000 Net Migration						
TFR 1.8	19,591	19.1	26,400	39.7	34,417	61.9
TFR 2.0	20,093	19.0	28,370	38.6	40,719	58.4
TFR 2.2	20,648	18.9	30,688	37.5	49,024	54.7
ILLINOIS						
500,000 Net Migration						
TFR 1.8	11,727	6.5	13,148	16.2	13,400	32.3
TFR 2.0	12,042	6.4	14,278	15.6	16,464	29.1
TFR 2.2	12,388	6.4	15,613	15.0	20,809	26.2
1,000,000 Net Migration						
TFR 1.8	12,489	12.2	15,278	27.9	17,730	48.8
TFR 2.0	12,818	12.1	16,505	27.0	21,392	45.1
TFR 2.2	13,180	12.0	17,952	26.0	26,621	41.5
FLORIDA						
500,000 Net Migration						
TFR 1.8	14,828	6.3	16,577	15.8	16,818	31.7
TFR 2.0	15,224	6.3	18,005	15.2	20,807	28.6
TFR 2.2	15,664	6.2	19,694	14.6	26,163	25.6
1,000,000 Net Migration						
TFR 1.8	15,766	11.9	19,199	27.3	22,147	48.1
TFR 2.0	16,179	11.8	20,746	26.4	26,749	44.9
TFR 2.2	16,638	11.7	22,572	25.5	32,874	40.8
TEXAS						
500,000 Net Migration						
TFR 1.8	17,381	6.1	19,353	15.2	19,500	30.7
TFR 2.0	17,847	6.0	21,026	14.7	24,158	27.7
TFR 2.2	18,363	6.0	23,004	14.1	30,414	24.8
1,000,000 Net Migration						
TFR 1.8	18,436	11.4	22,302	26.4	25,495	47.0
TFR 2.0	18,922	11.4	24,109	25.6	30,843	43.3
TFR 2.2	19,458	11.3	26,242	24.7	37,963	39.8
CALIFORNIA						
500,000 Net Migration						
TFR 1.8	27,581	11.6	33,461	26.8	38,408	47.5
TFR 2.0	28,306	11.6	36,168	26.0	46,356	43.7
TFR 2.2	29,108	11.5	39,358	25.0	57,111	40.2
1,000,000 Net Migration						
TFR 1.8	30,793	20.9	42,440	42.3	56,660	64.4
TFR 2.0	31,578	20.7	45,556	41.2	66,633	60.9
TFR 2.2	32,443	20.6	49,216	40.1	80,095	57.4

illustrates the cumulative increase in the proportion of post-1980 immigrants and their descendents for selected states and regions. Should fertility rise, these proportions would diminish, as Table 5 shows.

Age Composition

Age composition, although sometimes ignored by analysts, has an important impact on future fertility, mortality, and population growth itself. Everything else being equal, a "young" population grows more rapidly than an "old" population. With or without immigration, the age distribution of the United States will change drastically over the next 50 years, mainly because of the recent upheavals in fertility: low fertility in the 1930s, the post-World War II "baby boom," and now the lowest fertility period in U.S. history—the "baby bust" of the 1970s to the present. (Fertility differences between the baby boom and baby bust periods are striking. In the 1955-64 decade, 43 million births took place, while in 1970-79 only 33 million occurred.) Clearly, fluctuations in age composition will occur independently of international migration. Nevertheless, different levels of immigration will contribute to a limited extent to changes in future age composition. The impact is dependent not only on the volume of immigration but on the age composition of the immigrant group itself.*

Because of its age structure, immigration, at whatever level, retards the "aging" of the U.S. population, but only to a slight degree. This reflects the fact that the immigrant group is "younger" than the resident population. Indeed, only 0.2 percent of immigrants are 65 and over while 77.4 percent are 15-64, and 22.4 percent are under 15. However, the U.S. fertility rate has a more powerful impact on the country's age composition than does immigration, as illustrated in Table 6.

Low fertility in the U.S. has been contributing to an increase in the median age of the U.S. population for the past two decades. This aging process

will continue for the foreseeable future, but could be slowed down, if there is an increase in fertility, while immigration will continue to exert only a slight influence. For example, if net migration is held constant at 500,000 and fertility remains low at 1.8 children per woman, the median age of the population in 2030 will be 41.4 (compared to 30 today). Should fertility increase to 2.2, the median age of the population in 2030 would be 36.7—a difference of 4.7 years. However, if fertility is held constant at 1.8, the median age of the population in 2030 would only vary from 42.4 without immigration to 40.6 with annual net immigration of 1 million—a difference of only 1.8 years.

Reflecting the slight impact immigration has on median age, similarly small variations are noted in percent distribution of the population by age. The proportion of the total population at younger age levels is slightly higher with immigration than without, regardless of the fertility level. But overall, fertility has a much greater impact on the proportional age distribution of the population. With no immigration, 54.8 percent of the U.S. population will be in the 20-64 age group in 2030, assuming continued low fertility. A net annual influx of 1 million immigrants would only change that proportion to 56.8 percent.

With 43 percent of immigrants assumed to fall between the ages of 25 and 34, such relatively large numbers do have an impact on that age group. For example, with low fertility and no new immigrants, the percent aged 25-34 in the 1990 population would be a high 17.3, reflecting the high fertility of 1955-64. That proportion would be increased to 17.9 percent by net migration of 1 million per year (434,000 of whom would be aged 25-34). As the baby bust cohort of the 70s reaches ages 25-34 in 2005, this group would represent only 12.8 percent of the total population if no immigration occurred, and 13.4 percent if net migration totalled 1 million a year.

*The projections in this report assume the same age distribution that characterized legal immigrants entering the U.S. in 1978. *Illegal immigration and refugee movements are not considered in the data upon which these assumptions are derived.*

Figure 2. Post-1980 Immigrants and Descendants as a Percent of Regional and State Populations, Cumulative Increase, 2000, 2030, 2080
(NET INTERNATIONAL MIGRATION OF 500,000)

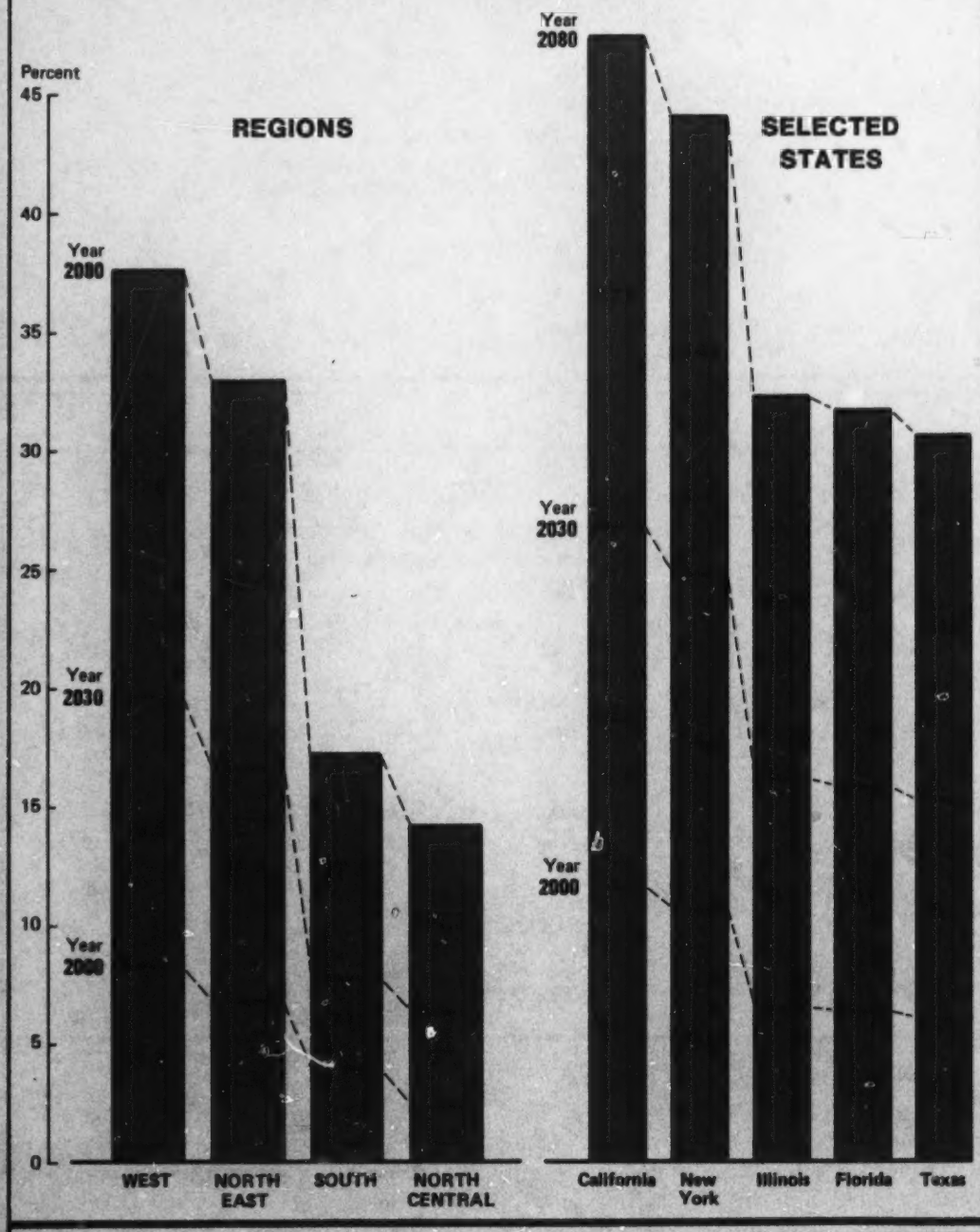


TABLE 6
Median Age of U.S. Population by Total Fertility Rate and
Annual Net International Migration, 2000-2080

Total Fertility Rate	Year			
	2000	2030	2050	2080
ANNUAL NET MIGRATION = 0				
1.8	36.8	42.4	43.4	41.5
2.0	36.0	39.9	40.2	41.2
2.2	35.1	37.1	37.2	38.0
ANNUAL NET MIGRATION = 500,000				
1.8	36.4	41.4	42.1	43.1
2.0	35.6	39.1	39.4	40.3
2.2	34.7	36.7	36.7	37.4

TABLE 7
Projected U.S. Population, 2030, by Age, Total Fertility Rate and
Annual Net International Migration

Total Fertility Rate	Level of Annual Net Migration				
	No Migration	250,000	500,000	750,000	1,000,000
POPULATION AGED 0-19					
1.8	57,026	59,783	64,304	68,824	73,345
2.0	67,389	72,564	77,458	82,490	87,521
2.2	82,324	87,651	93,585	99,214	104,845
POPULATION AGED 20-64					
1.8	134,155	146,018	156,117	166,218	176,317
2.0	146,754	156,946	167,419	177,755	188,091
2.2	159,032	169,626	180,219	190,815	201,408
POPULATION AGED 65+					
*	53,654	55,418	57,182	58,945	60,709

*Fertility differentials do not affect the size of the elderly population in 2030.

Although the effect on median age and age distribution is minimal, the numerical impact of immigration on population size should not be overlooked. Adding 500,000, or 750,000, or 1 million people each year is significant.

Total population is 13.4 percent larger in 2030 with net international migration of 500,000 per year than it would be with no immigration. A half million immigrants per year would amount to a 17.3 percent increase of persons aged 25 to 29 in

the total population, but only an 8.5 percent increase among those aged 65-69. The numerical impact of immigration is greater in the younger ages, although it can be felt through all stages of the life cycle.

Immigration also has a marginal effect on the "dependency ratio," as shown in Table 7. In 2030 with fertility assumed to be 1.8, a net migration rate of 1 million per year would add 65 million to total population size, but this number would not be proportionately distributed. Immigration would add more persons to the working age population, 20-64, than would be expected proportionally and fewer to the "dependent" population aged 65 and over or under 20. Because immigrants are somewhat more likely to fall in the 20-64 age group than the resident population, the greater their number, the lower the dependency ratio.

While the impact of immigration on the age distribution is not great, the sheer numbers being added necessarily are significant, particularly in certain age categories, and thus have an effect on various social institutions.

Social Institutions

The School

In recent years, enrollment in U.S. schools has declined as the baby boom generation finished its schooling and was replaced by the baby bust generation of the late sixties and seventies. Total school enrollment (nursery school through college) fell every year since 1975, and enrollment in 1979 was lower than at any time since 1965.

Elementary school enrollment peaked in 1970 at 33,950,000 and has fallen steadily, reaching 27,865,000 in 1979. The secondary school pattern of decline is more recent, peaking in 1977 at 15,171,000 and falling ever since. All indications are that high school enrollment in the 1980s will follow the trend already experienced by elementary schools in the 1970s—that is, continued decline.

College enrollment has remained fairly stable at about 10 million since 1974, but may begin to decline in the mid-to-late 1980s. However, while al-

TABLE 8
Projected U.S. Population Aged 5-19, 2000-2080, by Total Fertility Rate and Annual Net International Migration (in 1,000s)

Fertility and Net International Migration	Year		
	2000	2030	2080
TFR 1.8			
No Migration	50,415	42,096	32,693
500,000	53,254	48,897	44,965
1,000,000	56,094	55,697	57,238
TFR 2.0			
No Migration	55,453	50,935	47,442
500,000	58,415	58,447	62,185
1,000,000	61,381	65,948	76,923
TFR 2.2			
No Migration	61,002	61,737	69,076
500,000	64,103	70,049	87,010
1,000,000	67,203	78,360	104,946

most everyone attends elementary and secondary schools, the proportion continuing to college is dependent on social and economic as well as demographic factors. The future direction of college enrollment is more difficult to forecast.

Current projections see little growth in school enrollment over the next 50 years. Enrollment could decline as a result of a combination of continued low fertility and moderate levels of net international migration (500,000-750,000 a year). This, of course, reflects the continued low fertility of the past decade extended into the future. Immigration will simply slow down the process of declining enrollment, and, if sufficiently large, may end it completely.

Without immigration, the number of people aged 5-19 will fall drastically over the next century if fertility remains low. Indeed, the number will fall from 54 million in 1980 to 33 million in 2080. Even if fertility climbs to 2.0 that population will drop to 47 million in 2080 after peaking at 55 million in 2000. A substantial rise in fertility would be needed for the number of people aged 5-19 to increase over the next century.

Should fertility remain at 1.8, net migration would have to reach 1 million per year to result in larger numbers of people of school age. By 2080, the 5-19 age group would still only be 3 million larger than it is at present. Limiting net migration to 500,000, on the other hand, would result in a slight decline in the population aged 5-19 over the next 100 years.

Should fertility increase slightly to 2.0, net migration of 500,000 annually would result in only 4 million additional people aged 5-19 in 2030; after that year, growth would increase at a more rapid rate with the population in that age group reaching 62 million in 2080. Immigration at higher levels means larger numbers in future years. With fertility above the replacement level of 2.1 births per woman, immigration simply would add more numbers to an already large total. For example, with net international migration of 1 million per year and a TFR of 2.2, the population 5-19 would almost double over the next century to 105 million. (See Table 8 for population aged 5-19 by net international migration level and fertility rate).

As noted earlier, changes in fertility lead to major changes in the size of the population; the level of immigration simply increases the number somewhat. However, under low fertility assumptions, moderate levels of immigration result in a stabilization of the 5-19 population at approximately 55-60 million, instead of allowing the number to fall continuously.

More important for policymaking than sheer numbers of people is the level of school enrollment resulting from different levels of fertility and immigration in future years. How much larger or smaller will school enrollment be than at present? How many immigrants and their descendants will be enrolled in school in 2000? in 2080?*

Assuming that low fertility rates (1.8) persist, without any immigration, total school enrollment from elementary school through college will experience a 43 percent drop over the next century—from 58 to 33 million students. (See Table 9 for detailed enrollment projections for elementary, secondary, and post-secondary schools.) This drop will be most severe at the elementary level where enrollment will have declined by approximately 9 million students. A 7 million drop in high school enrollment and a 5.5 million decline in college enrollment is projected.

Should net international migration average 500,000 a year, with the same low fertility rate persisting, the overall number of students would still decrease somewhat over the next century. The total number of students would be approximately 46 million in the year 2080. Elementary school enrollment would about equal the present total, but both secondary and post-secondary enrollment levels would fall.

With very low fertility it would require close to 1 million immigrants per year to assure that the total

*The proportion of people in each age group enrolled in school is assumed to remain unchanged from 1979 and is the same for both "residents" and "immigrants." While the age boundaries are approximate, for the purpose of this report school enrollment is divided into three levels: elementary (ages 5-13); secondary (ages 14-17); and post-secondary or college (ages 18-24).

TABLE 9
Projected School Enrollment, 2000-2080, by Total Fertility Rate and
Annual Net International Migration (in 1,000s)

Fertility and Net International Migration	Year		
	2000	2030	2080
ELEMENTARY SCHOOL			
TFR 1.8			
No Migration	29,252	24,417	19,069
500,000	30,971	28,436	26,274
1,000,000	32,690	32,429	33,472
TFR 2.0			
No Migration	32,175	29,760	27,964
500,000	33,993	34,223	36,691
1,000,000	35,812	38,686	45,418
TFR 2.2			
No Migration	35,394	36,318	41,115
500,000	37,322	41,312	51,819
1,000,000	39,249	46,306	62,560
SECONDARY SCHOOL			
TFR 1.8			
No Migration	12,906	10,764	8,289
500,000	13,591	12,467	11,385
1,000,000	14,277	14,167	14,477
TFR 2.0			
No Migration	14,195	12,908	11,879
500,000	14,898	14,762	15,545
1,000,000	15,600	16,615	19,211
TFR 2.2			
No Migration	15,616	15,498	17,066
500,000	16,336	17,525	21,470
1,000,000	17,057	19,551	25,873
COLLEGE			
TFR 1.8			
No Migration	6,517	5,731	4,438
500,000	6,882	6,645	6,097
1,000,000	7,248	7,558	7,756
TFR 2.0			
No Migration	6,827	6,771	6,260
500,000	7,196	7,750	8,199
1,000,000	7,564	8,730	10,137
TFR 2.2			
No Migration	7,170	8,014	8,858
500,000	7,541	9,069	11,152
1,000,000	7,912	10,123	13,446

number of people enrolled in school in 2080 would be about the same as at present.

Even if the total fertility rate increased to 2.0, school enrollment would still decline over the next

100 years without the influence of immigration. If we couple this increase in fertility with annual net international migration of 500,000, enrollment begins to exceed present numbers soon after the turn

of the century. By 2030, total school enrollment approaches 60 million and by 2080 it adds up to 63 million. Higher levels of immigration would of course result in even greater numbers of students over the next century. For example, 1 million immigrants per year would mean 78 million students in 2080 or a 41 percent increase over current enrollment.

With the total fertility rate at 2.2 school enrollment will not decline, even without immigration. On the contrary, the number will rise to 60 million in just 19 years and to 71 million in 100 years. The impact of 1 million immigrants annually would be a dramatic increase in school enrollment to 107 million in 2080.

These figures show that in conjunction with very low fertility, net international migration at an annual level of 1 million does not contribute to any significant increase over the current level of school enrollment. If fertility should rise to 2.0, immigration levels would have to be at least 500,000 a year to cause significant growth in the school population from present levels. It is not until immigration is coupled with above-replacement level fertility that school enrollment begins to increase dramatically to the point of doubling the present day school population.

Table 10 illustrates the number of *additional* students enrolled over time as a result of different immigration levels. Regardless of the level of fertility, immigration will result in millions of additional children entering the U.S. school system, with that impact growing over time. Net international migration of 1 million a year would result in about 3.5-4 million additional elementary school students, about 1.4 million additional secondary school students, and 750,000 more college students by the year 2000 than would be the case if there was no immigration to the United States during the next 20 years. Within 50 years, between 8-10 million elementary school students, about 4 million high school students, and 2 million college students would be added. That number would grow substantially in the following 50 years to a possible overall total of 35 million more students than would be found if no immigration occurred, or 17 million more than if net migration were limited to 500,000

per year. With fertility remaining at 1.8 and immigration averaging 1 million per year, in 2000, 10.5 percent of the elementary school population will consist of 1980 immigrants and their descendants; in 2030 it will be 25 percent; in 2080 the amount will grow to 43 percent. Similar changes can be anticipated for the other grades.

While moderate levels of immigration could maintain the present size of the U.S. school population, continued low fertility will insure that school enrollment does not grow substantially from what it is today. The decline in educational expenditure brought on by a shrinking school-age population has been anticipated by some policymakers as an antidote to the problem of maintaining adequate services for the growing number of elderly early in the next century.

School enrollment in states and regions receiving a disproportionately large number of immigrants will experience the greatest impact on available resources. The proportional distribution of post-1980 immigrants and their descendants in Table 3 can be applied to the projected total number of future students to obtain a clearer picture of the impact of the number of immigrants and their descendants on schools in certain regions. These projections will affect decisions about bilingual education and other educational needs peculiar to the immigrant community. The demographic data described here should also serve as a base for further discussion by economists, sociologists, planners, and others who are interested in evaluating the effects of student enrollment on the economy, the community, and the individual educational institutions concerned.

The Labor Force

The labor force* is the principal channel through which population changes transmit their effects to the economy at large, since the size, growth, and composition of the labor force are closely related to

*The labor force includes all those who are employed or actively seeking employment.

TABLE 10

**Projected School Enrollment Attributable to Annual
Net International Migration, 2000-2080, by Total Fertility Rate
And Annual Net International Migration (in 1,000s)**

Fertility and Net International Migration	Year		
	2000	2030	2080
ELEMENTARY SCHOOL			
TFR 1.8			
500,000	1,719	4,010	7,205
750,000	2,578	6,009	10,804
1,000,000	3,438	8,020	14,403
TFR 2.0			
500,000	1,818	4,463	8,727
750,000	2,727	6,694	13,090
1,000,000	3,636	8,926	17,454
TFR 2.2			
500,000	1,928	4,994	10,704
750,000	2,892	7,491	16,084
1,000,000	3,855	9,988	21,410
SECONDARY SCHOOL			
TFR 1.8			
500,000	685	1,702	3,095
750,000	1,028	2,555	4,642
1,000,000	1,370	3,404	6,190
TFR 2.0			
500,000	702	1,854	3,665
750,000	1,053	2,781	5,499
1,000,000	1,404	3,708	7,330
TFR 2.2			
500,000	720	2,027	4,403
750,000	1,081	3,040	6,592
1,000,000	1,440	4,053	8,806
COLLEGE			
TFR 1.8			
500,000	365	914	1,659
750,000	548	1,340	2,435
1,000,000	730	1,827	3,318
TFR 2.0			
500,000	368	979	1,939
750,000	552	1,469	2,908
1,000,000	736	1,959	3,877
TFR 2.2			
500,000	371	1,055	2,294
750,000	557	1,582	3,441
1,000,000	742	2,109	4,588

similar traits of the general population. A common device for mirroring the influence of demographic

changes on the labor force is through labor force participation rates. These rates measure the pro-

portion of individuals in a particular demographic subgroup (e.g., an age-sex category) that are in the labor force at a given time. Multiplying the number of persons in each demographic subgroup in the population by that subgroup's labor force participation rate and then adding up the results gives the total size of the labor force.

To highlight the effects of fertility and immigration on the labor force, it is assumed that the 1978 labor force participation rates (i.e., the proportion of individuals in a particular age-sex subgroup in the labor force at a given time) illustrated in Table 11 will remain constant throughout the projection period for both the resident and immigrant population.* The estimated size and structure of the U.S. labor force at the start of the projection period are shown in Table 12. These data are derived by applying 1978 labor force participation rates to the extended population as of July 1, 1980.** In this Table, over half the labor force is under age 35, reflecting the fact that persons born during the baby boom were also under 35 years of age in 1980.

Projections of the future total size of the labor force under alternative fertility and immigration

assumptions are shown in Table 13. Because high fertility and high levels of net international migration are conducive to rapid rates of population growth, the largest projected labor force, equal to 229.4 million, is produced in the year 2080 when a total fertility rate (TFR) of 2.2 is combined with annual net migration of 1 million. Conversely, the labor force is projected to *decline* by 16 percent between 1980 and 2080 if fertility stays below replacement level at TFR = 1.8 and there is no net international migration.

Between 1980 and 2000 the labor force will tend to grow faster than total population as the "baby boom" generation enters those ages characterized by the highest rates of labor force participation. Between 2000 and 2080, the reverse will occur as this large group reaches retirement age. These differential rates of growth of the labor force and of total population have implications for the dependency burden***, a measure that refers to the number of persons out of the labor force that each member in the labor force has to support. Holding

TABLE 11
U.S. Civilian Labor Force Participation,
By Age and Sex, 1978
(Percent)

Age	Males	Females
15-19	49.7	43.1
20-24	86.0	68.3
25-34	95.4	62.1
35-44	95.7	61.6
45-54	91.3	57.1
55-59	82.9	48.6
60-64	62.0	33.1
65-69	30.5	15.4
70+	14.0	4.6

Sources: U.S. Bureau of Labor Statistics, "Employment and Unemployment During 1978: An Analysis." *Special Labor Force Report*, No. 218; and U.S. Bureau of Labor Statistics, "Marital and Family Characteristics of the Labor Force, March 1979." *Special Labor Force Report*, No. 237.

*The assumption that participation rates will remain constant is likely to be in error (although differences attributed to immigration will not be affected), especially for females, whose participation rates have risen sharply in the past two decades. In 1980, for example, women made up 43 percent of the U.S. labor force. If these increases continue, they will affect the projections in several ways. Most obviously, the size of the labor force will be larger than projected in Table 13. The labor force is also likely to be more female. In these projections the sex ratio of the labor force changes little across alternative assumptions. The percent of males in the total labor force ranges between 59.7 and 60.7. But this percentage would obviously fall if past trends in male and female labor force participation rates were extrapolated into the future.

**See "Impact of Immigration of U.S. Population Size," p. 17 for a discussion on selecting a base population. In this instance, that base is derived from Census Bureau projections which estimated a population of 222,117,904. The Census of 1980, in fact, enumerated 226,504,825 people. As a result, all projections in this report err on the low side. Proportional changes, however, are not affected.

***Dependency burden involves *economic* dependency and includes persons of all ages. This is not to be confused with *dependency ratio*, which indicates *age* dependency or relative numbers of people in and out of the working ages.

TABLE 12
Estimated U.S. Labor Force by Age and Sex,
July 1, 1980*

Age Group	TOTAL		Males		Females	
	Number (1,000s)	Percent	Number (1,000s)	Percent	Number (1,000s)	Percent
Total	106,237	100.0	62,885	100.0	43,352	100.0
15-34	54,177	51.0	31,415	49.9	22,762	52.5
35-54	36,822	34.7	22,052	35.1	14,770	34.1
55+	15,238	14.3	9,418	15.0	5,820	13.4

*Based on 1978 labor force participation rates illustrated in Table 11.

fertility constant at 1.8, the dependency burden varies from a high of 1.26 with zero net migration in 2080, to a low of 1.02 with 1 million net migration in 2000. Thus, can immigration be used to slow down the expected increase in the dependency burden after 2000 as the baby boom generation begins to retire? Since many immigrants tend to be in the young working age groups, it is sometimes suggested that encouraging more migration might lessen the heavy pressures likely to be experienced by the Social Security system between 2010 and 2030. Although Table 13 contains evidence that such a policy might begin to achieve this objective, the magnitude of this effect appears to be small when judged in light of the range of assumptions used.

What impact does immigration have on the projected age structure of the labor force? The projected labor force over the next one hundred years is markedly older than today's and the median age increases with time. In general, the effects of changes in fertility on the age composition of the labor force are greater than the effects of immigration. Variations in the total fertility rate between 1.8 and 2.2 produce changes from one to two years in the median age of the labor force in the year 2080. By contrast, the effect of extreme variations in immigration assumptions on the median age in 2080 is between 0.2 and 0.7 of a year. Differences are even

smaller in earlier years. The reason is that while immigrants enter the population at practically all ages they are concentrated in the young-middle age range. Since alternative immigration assumptions hold the age distribution of immigrants constant, there is relatively little impact on the median age of the population. Changes in fertility, on the other hand, have their effects concentrated at one end of the age distribution. While the issue of whether an aging labor force is good or bad for the economy has yet to be resolved, proposals to change levels of immigration are unlikely to play a part in the debate since they have little effect on labor force age structure one way or the other.

What contribution does immigration make to the growth of the labor force? Shown in Table 14 are the projected ratios of the size of the total labor force under alternative immigration assumptions compared to its size with no net international migration. The largest ratio should emerge when fertility rates are low and combined with a large volume of net migration. Indeed, by 2080, with a TFR of 1.8 and net international migration of 1 million, the effect of immigration is to create a labor force some 70 percent larger than if there were no immigration. Even if fertility rates are above replacement level and net migration is 500,000 per year, the labor force by 2080 would still be one-quarter larger than if there were no immigration.

TABLE 13
Projected U.S. Civilian Labor Force, 2000-2080,
Absolute Size and as a Percent of Total Population by
Total Fertility Rate and Annual Net International Migration

Total Fertility Rate	Year					
	2000		2030		2080	
	Labor Force (1,000s)	Percent of Total Population	Labor Force (1,000s)	Percent of Total Population	Labor Force (1,000s)	Percent of Total Population
ANNUAL NET MIGRATION = 0						
1.8	120,094	49.3	112,112	45.8	89,169	44.2
2.0	120,896	48.3	121,858	45.5	116,184	44.6
2.2	121,780	47.3	132,993	45.1	151,350	44.3
ANNUAL NET MIGRATION = 500,000						
1.8	126,105	49.4	128,438	46.3	120,474	44.9
2.0	126,915	48.4	138,635	45.9	150,766	45.0
2.2	127,805	47.4	150,279	45.4	190,827	44.9
ANNUAL NET MIGRATION = 750,000						
1.8	129,111	49.4	136,602	46.5	136,125	45.2
2.0	129,924	48.4	147,027	46.1	168,058	45.2
2.2	130,819	47.4	158,926	45.5	210,130	45.0
ANNUAL NET MIGRATION = 1,000,000						
1.8	132,141	49.5	144,762	46.6	151,779	45.3
2.0	132,929	48.5	155,413	46.2	185,347	45.3
2.2	133,678	47.4	167,509	45.6	229,435	45.1

Perhaps a more illuminating way of revealing the significance of these ratios is to consider the division of the labor force into (1) 1980 residents and their descendants, and (2) post-1980 immigrants and their descendants. Table 15 shows that if fertility were to remain at 1.8 births per woman and if net international migration were 1 million each year, by the year 2080 two out of every five labor force members would be post-1980 immigrants or their descendants. Should net migration be limited to 500,000 per year, that proportion would be one in four. Thus, immigrants comprise a larger share of the labor force the lower the level of fertility and the higher the volume of net international migration.

Both Tables 14 and 15 focus on the size of the labor force at a particular time. Dynamic aspects of labor force size and composition are illustrated in Table 16, which shows the change in the size of the labor force (in absolute and relative terms) and how much of this is due to change in the resident portion of the labor force or the immigrant portion. When viewed over time, the contribution of immigration to labor force growth is substantial. Specifically, for the periods 2000-2030 and 2030-2080, immigration is a more important contributor to labor force growth than is the change in the resident labor force, regardless of level of fertility or immigration. Indeed, between 2030 and 2080, in those instances

TABLE 14

**Projected Ratio of Labor Force Size Under Alternative
Immigration Assumptions to Its Size with No Immigration*, 2000-2080**

Fertility	Year		
	2000	2030	2080
ANNUAL NET MIGRATION = 500,000			
1.8	1.050	1.146	1.351
2.0	1.050	1.138	1.298
2.2	1.049	1.130	1.261
ANNUAL NET MIGRATION = 750,000			
1.8	1.075	1.218	1.527
2.0	1.075	1.207	1.446
2.2	1.074	1.195	1.388
ANNUAL NET MIGRATION = 1,000,000			
1.8	1.100	1.291	1.702
2.0	1.100	1.275	1.595
2.2	1.098	1.260	1.516

*Ratios obtained from Table 13 by dividing projected labor force assuming 500,000, 750,000, and 1,000,000 immigrants by corresponding numbers assuming no annual net international migration.

TABLE 15

**Projected Proportion of the Labor Force, Post-1980 Immigrants and Descendants,
2000-2080, by Total Fertility Rate and Annual Net International Migration**

Fertility and Net International Migration	Year		
	2000	2030	2080
TFR 1.8			
500,000	4.8	12.7	26.0
750,000	7.0	17.9	34.5
1,000,000	9.1	22.6	41.3
TFR 2.0			
500,000	4.7	12.1	22.9
750,000	6.9	17.1	30.9
1,000,000	9.1	21.6	37.3
TFR 2.2			
500,000	4.7	11.5	20.7
750,000	6.9	16.3	28.0
1,000,000	8.9	20.6	34.0

TABLE 16
Labor Force Growth and Components of Change, 1980-2080,
By Total Fertility Rate and Annual Net International Migration
(in 1,000s)

Total Fertili- ty Rate	Year					
	1980-2000		2000-2030		2030-2080	
	Change in Labor Force Size	Change due to Immi- gration	Change in Labor Force Size	Change due to Immi- gration	Change in Labor Force Size	Change due to Immi- gration
ANNUAL NET MIGRATION = 0						
1.8	13,857 (13.0)*	0	-7,982 (-6.6)	0	-22,943 (-20.5)	0
2.0	14,659 (13.8)	0	962 (0.8)	0	-5,674 (-4.7)	0
2.2	15,543 (14.6)	0	11,213 (9.2)	0	18,357 (13.8)	0
ANNUAL NET MIGRATION = 500,000						
1.8	19,868 (18.7)	6,011 (5.7)	2,333 (1.9)	10,315 (8.2)	-7,964 (-6.2)	14,979 (11.7)
2.0	20,678 (19.5)	6,019 (5.7)	11,720 (9.2)	10,758 (8.5)	12,131 (8.8)	17,805 (12.9)
2.2	21,568 (20.3)	6,025 (5.7)	22,474 (17.6)	11,261 (8.8)	40,548 (27.0)	22,191 (14.8)
ANNUAL NET MIGRATION = 1,000,000						
1.8	25,904 (24.4)	12,047 (11.4)	12,621 (9.6)	20,603 (15.6)	7,017 (4.8)	29,960 (20.7)
2.0	26,692 (25.1)	13,033 (11.3)	22,484 (16.9)	21,522 (16.2)	29,934 (19.3)	35,608 (22.9)
2.2	27,441 (25.8)	11,898 (11.2)	33,831 (25.3)	22,618 (16.9)	61,926 (37.0)	43,569 (26.0)

*Figures in parentheses are percent changes and are based on the size of the total labor force at the beginning of the period.

where fertility is below replacement level, immigration either prevents a decline in labor force size or reduces the extent of decline. For example, with the TFR at 2.0 and with an annual net international migration of 500,000, the effect of immigration is to convert what could have been a projected 4.1 percent decline in the labor force without immigration into an 8.8 percent increase.

Some analysts have speculated that the decline in the U.S. birth rate over the past 15 years might create a labor shortage in this country that could

only be met by relaxing our immigration policy. So far the evidence on this point is relatively sparse. At its greatest, the difference between the largest and smallest birth cohorts in the post-1955 period is just over 1 million. Since the mid-1970s, the annual number of births has been increasing and is presently over 3.6 million. The size of future generations entering the labor force should not vary significantly from year to year. Moreover, with improved health and longevity among the population over 55 years old, temporary labor shortages could possibly

be met entirely through increased participation rates in this age group. Labor shortages and labor surpluses arise because of the interaction of the forces of supply and demand. This report's projections are not intended to address this issue. The projections included here are of labor *supply* only and do not embrace aspects of labor demand. Nevertheless, given the concern with the impact of immigration on U.S. labor force growth and composition, there is a compelling argument for close coordination between the formulation of employment and immigration policy, with changes in fertility behavior also being given consideration.

The Elderly

The growing size of the elderly population and its special needs (such as medical care) are an increasing cause of concern in the U.S. This demographic

trend has forced policymakers to reevaluate long-run plans for the retirement system and other programs to assist the elderly—here defined as persons aged 65 and over. Will immigration exacerbate this growing problem or will it make little difference?

Projecting the elderly population for the next 65 years is relatively simple. The people being counted are already born. Immigration and mortality are the only variables contributing to the numbers of elderly between now and 2045.* Because of the baby boom generation, the elderly population will grow in size after about the year 2015 with or without immigration.

*This report assumes some progress in life expectancy, particularly for the next 50 years. As a result, the number of elderly in future years is greater than that projected by the Bureau of the Census.

TABLE 17
Projected Number (in 1,000s) and Percent of the Population Aged 65 and Over, 2000-2080, by Total Fertility Rate and Annual Net International Migration

Total Fertility Rate	Year							
	2000		2030		2050		2080	
	Percent	Number	Percent	Number	Percent	Number	Percent	Number
ANNUAL NET MIGRATION = 0								
1.8	13.1	31,928	21.9	53,654	23.0	52,282	25.0	50,391
2.0	12.8	—*	20.0	—	20.3	53,659	21.9	57,350
2.2	12.4	—	16.2	—	17.7	55,152	19.2	65,425
ANNUAL NET MIGRATION = 500,000								
1.8	12.7	32,484	20.6	57,182	21.5	58,937	23.3	62,425
2.0	12.4	—	18.9	—	19.2	60,142	20.8	60,728
2.2	12.0	—	17.3	—	16.9	61,916	18.4	73,250
ANNUAL NET MIGRATION = 1,000,000								
1.8	12.4	33,039	19.6	60,709	20.5	65,792	22.2	74,324
2.0	12.1	—	18.1	—	18.4	67,164	20.1	82,106
2.2	11.7	—	16.6	—	16.4	68,821	17.9	91,118

*Fertility differentials do not affect total population size 65 and over until 2045.

When calculating the proportion of elderly in the population in any given year, fertility once again becomes an important variable. All else being equal, the higher the fertility, the lower the proportion of the population who will be 65 and over. Table 17 also illustrates that the greater the number of immigrants the lower the percent of elderly. This reflects the "young" median age of the immigrant population in comparison to the resident population in 1980. As a result of these two factors, the proportion of the elderly in the population of the United States in 2080 could range from 17.9 percent—with a TFR of 2.2 and annual international migration of 1 million—to 25.0 percent—with a TFR of 1.8 and no net migration. This compares to the 11 percent of the population who were age 65 and over in 1980.

Just as the relative youth of the immigrant population contributes slightly to a decline in the proportion of elderly in future years, it also means that a substantial number of immigrants will not enter the ranks of the elderly themselves until the second half of the 21st century. The impact of the baby boom far exceeds any other contributing factor to the numerical growth of the elderly population. Without immigration, the number of elderly will more than double over the next 50 years to 54 million in 2030, before declining somewhat around 2050 when the final remnants of that giant generation begin to die out. Regardless of immigration levels, the increase in the number of elderly between 2000 and 2030 will be considerable. The total number of persons over 65 could reach 61 million, if net migration is as much as 1 million per year. Yet even this figure represents only a 13 percent increase over what the number would be without immigration. Although immigration increases the number of elderly, the proportion of elderly in the total population is lessened somewhat.

While the proportion of immigrants and their descendants in the total elderly population will necessarily increase over time, it will not keep pace with the comparative increase in the overall population. For example, in 2080, with low fertility and high immigration, 40 percent of the total population would consist of post-1980 immigrants and

their descendants; among the elderly that proportion will be only 33 percent.

It is difficult to foresee that immigration will make any major impact on the elderly population for the next 50 years. The problems associated with an aging population are critical—adding immigrants exacerbates them ever so slightly numerically; but it alleviates the problem, again ever so slightly, by lowering the proportion of the elderly in the total population.

Conclusion

The many issues involving regional distribution, school enrollment, the labor force, and the elderly should not be discussed without also looking at past and future U.S. fertility, as well as net international migration. It is important that policy decisions concerning immigration levels take into consideration the fertility trends of the U.S. people—resident and immigrant alike.

With continued low, below replacement level fertility, the proportional impact of immigration on regions, schools, and the labor force is great. If net migration was sustained at 1 million per year, the proportion of elementary school students in the nation who are post-1980 immigrants or their descendants could reach 43 percent in one hundred years. Over 41 percent of the labor force in 2080 and 32 percent of the elderly population would consist of post-1980 immigrants and their descendants. The impact is particularly significant in some states. In California the proportion of immigrants and their descendants attending schools, entering the labor force, and growing old becomes quite significant over time. Close to two-thirds of California's population in 2080 will consist of this group, given a TFR of 1.8 and net migration of 1 million.

Should fertility increase, the impact of immigration will be significantly reduced. With a TFR of 2.2 and net migration of 1 million, the proportion of

children enrolled in elementary schools in 2080 who are post-1980 immigrants or their descendants would be 33 percent, and about 34 percent of the labor force would fall into this category. *But* the overall numbers of people included will be much greater. For example, given a TFR of 2.2 and net immigration of 500,000 per year, California's 2080 population would surpass 57 million, the nation's elementary schools would be educating about 52 million students, there would be 190 million people in the labor force, and the elderly would number in excess of 78 million.

Since both fertility fluctuations and variations in immigration have an impact on population size, there is a need for an integrated policy approach that takes both factors into consideration.

In terms of regional distribution, immigrants have traditionally settled in a few preferred states. There is no evidence to suggest any change in these preferences. As a result, California and the West in general, Florida and Texas, and the South in general, and New York can expect a greater impact from immigration on both growth rates and absolute numbers than the rest of the nation.

The assumed age composition of the immigrant population has its own effect on the society. Being somewhat younger than the general population, immigration tends to retard, but not end, the aging process which results from low fertility. The greater the immigration the stronger the impact.

The effect of immigrant age structure is noted in both school enrollment and labor force participation. Over the next 50 years, school enrollment will only increase substantially if immigration reaches 750,000 or more per year—given low fertility levels and the fact that the baby bust cohort is just now entering that phase of life.

Under the same assumptions, however, the labor force will grow from its present 106 million to 129 million in the year 2000 and 137 million in 2030. This reflects both the baby boom entering adulthood and the immigration of young adults to the U.S. However, when members of the baby bust cohort become adults, the size of the labor force may fall somewhat, possibly giving rise to a demand

for either increased immigration or greater participation of women and elderly in the labor force.

Many aspects of American life from kindergarten through retirement will be affected in some way by continued relatively high levels of immigration, but the intensity of that impact will depend to a great extent on future as well as past levels of fertility. Both must be considered in planning for the future.

Footnotes

¹Leon F. Bouvier, "The Impact of Immigration on U.S. Population Size," *Population Trends and Public Policy, Number 1*, Population Reference Bureau, 1981, p. 8.

²*Ibid.*, p. 18.

³*U.S. Immigration Policy and the National Interest*, Final Report of the Select Commission on Immigration and Refugee Policy, March 1, 1981, p. 162.

⁴Frank D. Bean, Gray Swicegood, and Thomas F. Linsley, "Patterns of Fertility Variations Among Mexican Immigrants to the U.S.," Paper prepared for SCIRP, 1980.

⁵Bouvier, *op cit.*, p. 12.

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